

**§ 464.17**

**40 CFR Ch. I (7–1–12 Edition)**

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg (pounds per million pounds) of metal poured	
Copper (T) .....	8.48	4.63
Lead (T) .....	8.7	4.3
Zinc (T) .....	12.6	4.74
TTO .....	18.1	5.91
Oil and grease (for alternate monitoring) .....	330	110

(g) *Melting Furnace Scrubber Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/62.3 million Sm <sup>3</sup> (pounds per billion SCF) of air scrubbed	
Copper (T) .....	3.01	1.64
Lead (T) .....	3.09	1.52
Zinc (T) .....	4.45	1.68
Total Phenols .....	3.36	1.17
TTO .....	7.97	2.6
Oil and grease (for alternate monitoring) .....	117	39.1

(h) *Mold Cooling Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg (pounds per million pounds) of metal poured	
Copper (T) .....	0.297	0.162
Lead (T) .....	0.305	0.151
Zinc (T) .....	0.44	0.166
TTO .....	0.935	0.304
Oil and grease (for alternate monitoring) .....	11.6	3.86

**§ 464.17 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology. [Reserved]**

**Subpart B—Copper Casting Subcategory**

**§ 464.20 Applicability; description of the copper casting subcategory.**

The provisions of this subpart are applicable to discharges to waters of the United States and to the introduction of pollutants into publicly owned treat-

ment works resulting from copper casting operations as defined in § 464.02(b).

**§ 464.21 Specialized definitions.**

For the purpose of this subpart:

(a) *Total Toxic Organics (TTO)*. TTO is a regulated parameter under PSES (§ 464.25) and PSNS (§ 464.26) for the copper subcategory and is comprised of a discrete list of toxic organic pollutants for each process segment where it is regulated, as follows:

(1) Casting Quench (§ 464.25(a) and § 464.26(a)):

- 23. chloroform (trichloromethane)
- 64. pentachlorophenol
- 66. bis(2-ethylhexyl)phthalate
- 71. dimethyl phthalate

(2) Dust Collection Scrubbers (§ 464.25(c) and 464.26(c)):

- 1. acenaphthene
- 22. para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 55. naphthalene
- 58. 4-nitrophenol
- 64. pentachlorophenol
- 65. phenol
- 66. bis(2-ethylhexyl)phthalate
- 67. butyl benzyl phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 71. dimethyl phthalate
- 72. benzo(a)anthracene (1,2-benzanthracene)
- 74. 3,4-benzofluoranthene
- 75. benzo(k) fluoranthene
- 76. chrysene
- 77. acenaphthylene
- 78. anthracene
- 81. phenanthrene
- 84. pyrene

(3) Investment Casting (§ 464.25(e) and § 464.26(e)):

- 1. acenaphthene
- 22. para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 55. naphthalene
- 58. 4-nitrophenol
- 64. pentachlorophenol
- 65. phenol
- 66. bis (2-ethylhexyl)phthalate
- 67. butyl benzyl phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 71. dimethyl phthalate
- 72. benzo(a)anthracene (1,2-benzanthracene)
- 74. 3,4-benzofluoranthene
- 75. benzo(k) fluoranthene
- 76. chrysene
- 77. acenaphthylene
- 78. anthracene

## Environmental Protection Agency

**§ 464.22**

81. Phenanthrene  
84. pyrene

(4) Melting Furnace Scrubber  
(§ 464.25(f) and § 464.26(f)):

1. acenaphthene  
22. para-chloro meta-cresol  
23. chloroform (trichloromethane)  
34. 2,4-dimethylphenol  
55. naphthalene  
58. 4-nitrophenol  
64. pentachlorophenol  
65. phenol  
66. bis (2-ethylhexyl) phthalate  
67. butyl benzyl phthalate  
68. di-n-butyl phthalate  
70. diethyl phthalate  
71. dimethyl phthalate  
72. benzo(a)anthracene (1,2-benzanthracene)  
74. 3,4-benzoflouranthene  
75. benzo(k) flouranthene  
76. chrysene  
77. acenaphthylene  
78. anthracene  
81. phenanthrene  
84. pyrene

(5) Mold Cooling (§ 464.25(g) and § 464.26(g)):

23. chloroform (trichloromethane)  
64. pentachlorophenol  
66. bis(2-ethylhexyl)phthalate  
71. dimethyl phthalate

### **§ 464.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available, except that non-continuous dischargers shall not be subject to the maximum day and maximum for monthly average mass (kg/1,000 kkg or lb/million lb of metal poured; kg/62.3 million Sm<sup>3</sup> or lb/billion SCF of air scrubbed) effluent limitations for copper, lead, zinc, total phenols, oil and grease, and TSS. For non-continuous dischargers, annual average mass limitations and maximum day and maximum for monthly average concentration (mg/l) limitations shall apply. Concentration limitations and annual average mass limitations shall only apply to non-continuous dischargers.

(a) *Casting Quench Operations.*

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg (pounds per million pounds) of metal poured	
Copper (T) .....	0.0307	0.0168
Lead (T) .....	0.0315	0.0156
Zinc (T) .....	0.0455	0.0171
Oil and grease .....	1.2	0.399
TSS .....	1.52	0.598
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.0 to 10.0 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.0068
Lead (T) .....	0.79	0.39	0.0088
Zinc (T) .....	1.14	0.43	0.0108
Oil and grease .....	30	10	0.199
TSS .....	38	15	0.399
pH .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> kg/1000 kkg (pounds per million pounds) of metal poured.

<sup>2</sup> These concentrations must be multiplied by the ratio of (4.8/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

<sup>3</sup> Within the range of 7.0 to 10.0 at all times.

(b) *Direct Chill Casting Operations.*

#### **BPT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg (pounds per million pounds) of metal poured	
Copper (T) .....	0.928	0.506
Lead (T) .....	0.952	0.47
Zinc (T) .....	1.37	0.518
Oil and grease .....	36.2	12.1
TSS .....	45.8	18.1
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.0 to 10.0 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.205
Lead (T) .....	0.79	0.39	0.265
Zinc (T) .....	1.14	0.43	0.326
Oil and grease .....	30	10	6.03
TSS .....	38	15	12.1
pH .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> kg/1000 kkg (pounds per million pounds) of metal poured.

<sup>2</sup> These concentrations must be multiplied by the ratio of (145/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

<sup>3</sup> Within the range of 7.0 to 10.0 at all times.